PROJECT NUMBER: 1313
PROJECT TITLE: Semiworks Process Development
PROJECT LEADER: W. G. Sanderson
PERIOD COVERED: February, 1988

A. **Objective**: Provide engineering and technical support to improve the performance and efficiency of the Semiworks operation.

B. **Results**:

Bright Flavor Flow System - Semiworks Primary (Oliver) - A manual detailing the operating procedures for the Bright Flavor Flow System in the Semiworks primary was issued. This manual contains operating standards, flow meter calibration procedures, cleaning requirements, system lay-out diagrams, and control logic schematics. Detailed operating procedures for training purposes are also included.

Evaluation of a 30 pound Capacity Cylinder (Nguyen) - The evaluation of a 30 lb. capacity cylinder for use in the Semiworks small scale primary operation was conducted. Results, from this evaluation, indicated that there was no significant difference between the control 15 lb. batch cylinder and the experimental 30 lb. capacity cylinder with regard to spray uniformity (PG & GLY) or blend uniformity (%RCB & %RL). Additional development on the 30 lb capacity cylinder will be conducted to determine the feasibility of using a stationary spray rack in place of the reciprocating spray arm.

On Line Laser Perforator For Product Development (Osmalov) - A Hauni on-line laser perforator was installed on the Semiworks complex 3 Mk-9/Max-S module for new product development work. The unit is configured to allow production of conventional parliament brands as well as new products with 5, 10, 15, and 20mm recessed filters.

Recessed Filter Development Work (Osmalov) - The reconfiguration of a filter combiner to produce a 15/16.5 plug with a 16.5mm recessed section was completed in the Semiworks make/pack area. Trial runs to check-out these modifications will being in early March.

C. **Plans**: Transfer the technology developed for the TLA primary process to the Semiworks Small Scale operation. Review all casing systems in the primary to provide improved flexibility and cleaning. Continue recessed filter development work and support for the on-line laser perforator for product development.

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